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Naval Postgraduate School (U.S.)

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NPS News Tip Sheet *Fall 2002*

All news organizations desiring to cover or explore further any of the items listed below should contact the NPS Public Affairs Office at 831.656.3649/3346 or e-mail jnavratil@nps.navy.mil or jfsander@nps.navy.mil

1) **RSEP.** NPS' Regional Security Education Program is a tailored set of briefs delivered to senior naval leadership on deploying aircraft carrier battlegroups and amphibious ready groups. Senior NPS professors and regional experts deliver this education program so that decision makers can get real time, real world briefs on the strategic context of their missions and the areas of operation they'll be deploying to. Course is delivered embarked while enroute to the units primary AOR. Every group commander who has received the briefings has lauded program, and it has been called the right product at the right time.

2) **Crossbow/TSSE.** NPS offers an interdisciplinary education to our entire officer student body. The TSSE program provides a broad-based, systems engineering and design oriented curriculum that focuses on the warship as a total engineering system including hull, mechanical, electrical (HM&E), and combat systems. Recent student-led research projects highlighted a small, littoral-warfare, sea-based system called SEALANCE and an accompanying air support unit called CORSAIR.

3) **Expertise in Homeland Security.** NPS has for years educated military officers at every level on current threats, regional security, counter-proliferation of weapons of mass destruction, counter-terrorism and asymmetric conflict. The school's capabilities in Homeland Security cover the spectrum from current applications, research, and available courses to proposed short and long-term efforts based upon current capabilities, assets, and expertise.

4) **Free Electron Lasers.** One megawatt of focused laser power can burn through a liter of a missile's material in about two seconds. Industry experts believe this type of laser can be compact enough to fit aboard Navy ships and still be powerful and accurate enough to kill a missile homing in to destroy its target. Students and professors from NPS are contemplating the very thought of a missile killer made of free electron lasers. This laser will be designed to be powerful enough to destroy ship seeking missiles far enough away to prevent debris from hitting the ship, and doing it with pinpoint accuracy.

5) **MBA Program.** NPS now offers a defense-focused MBA program providing officers and DoD civilians an advanced education in interdisciplinary approach to problem-solving and policy analysis by applying quantitative, financial, economics, information technology, and other state-of-the-art management techniques and concepts to military management and policy issues. Each graduate will have the ability to be conversant with all phases of the Revolution in Business Affairs initiative and will know latest management theory and practices, embracing leadership, communication, organization design, and planning within large public and private sector organizations, as well as military sub-units and activities.

6) **Executive Education and Leading Change Agent.** The mission of NPS' Center for Executive Education is to create and deliver high quality programs that help senior DoN/DoD executives to better understand emerging strategic and policy issues and practices in conjunction with the opportunities and constraints provided within their organizational setting. CEE is

committed to expanding existing ties with industry and other organizations and institutions, and to study emerging technologies, practices, and policies in order to enhance the capabilities of DoN/DoD systems, commands, people, and information. To accomplish this, CEE will combine defense decision makers, industry decision makers, and members of the Academic community in a nonpartisan forum of discussion and learning where each can benefit; provide an environment where defense issues may be better defined and understood; provide executive education programs that furnish the tools and skills necessary to add value to senior defense leaders; and provide educational content that is free from technological, political, and budget bias.

7) Leadership Development and Education for Sustained Peace. NPS' School of International Graduate Studies teaches a program aimed at deploying Army National Guard units before departing on extended peace-keeping operations. The LDESP seminar is a 6-day graduate education program for units deploying to Bosnia and Herzegovina that is preceded by a web-based preparation course and followed by continuing education opportunities. The LDESP curriculum focuses on answering four basic questions relevant to peacekeeping. LDESP is structured to leverage lessons learned and is a key component for creating consistency, continuity, and institutional memory in an operational environment that "turns over" senior military decision makers every six months. The LDESP syllabus has been designed to convey concepts and strategies that graduates will need to make military decisions in a rapidly changing, complex and ambiguous environment while considering the second and third order effects. Further, our mission is to help prepare senior leaders to deal effectively with challenges in country for which there are no clear-cut solutions. If we are successful, our graduates will learn how to think and act effectively in highly politicized situations that lack a pre-defined desirable outcome.

8) School of International Graduate Studies programs. It is the mission of the School for International Graduate Studies (SIGS) to support U.S. policy by strengthening the foundations of peace. SIGS achieves this mission by strengthening the management of armed forces, assisting emerging democracies to consolidate and institutionalize democratic defense management, improving the effectiveness of US and partner nations in promoting peace/security, educating the next generation of US and international leadership to identify and meet security challenges and improve defense cooperation, and building the effectiveness of peace operations by US and international forces, including post-conflict operations.

9) Computer Networks Security for HLS. The Navy has recently established an Information Professional community, with NPS as its core center of excellence. An NPS education will be the cornerstone of every IP officer and the educational instruction at NPS will be the primary driver for the Navy to meet emergent Information Age challenges.

10) UAV/UCAV Research. The Office of Naval Research established NPS' Center for Interdisciplinary Remotely-Piloted Aircraft Studies (CIRPAS) in the spring of 1996 to provide Unmanned Air Vehicle (UAV) flight services to the research, development, test and evaluation communities. The facility's capabilities have expanded to include military training exercises and operational demonstrations. CIRPAS operates a variety of manned and unmanned air vehicles. The Common Ground Control Station is interoperable among the Center's various UAVs. CIRPAS makes available a variety of payloads, data links and instrumentation to support user requirements. The facility provides unique UAV flight services by making available a centralized repository of diverse UAV assets to meet the needs of individual programs; offering access to these UAVs and support equipment on a "lease" basis so the user is spared

the cost of ownership; acting as an "honest broker" by providing equal access to all interested parties on a first-come, first served basis; making available turnkey UAV operations, relieving the customer of payload integration, flight safety and logistics tasks that ultimately detract from the user's research activities during flight operations; and providing low cost services through shared assets.